

Name: _____

Chapter 9 Study Sheet

definition of a monomial:

definition of a polynomial:

standard form of a polynomial:

degree of a polynomial:

term of a polynomial:

Classifying Polynomials

| Degree | Name by Degree | Number of Terms | Name by Term |
|------------|----------------|-----------------|--------------|
| 0 | | 0 | |
| 1 | | 1 | |
| 2 | | 2 | |
| 3 | | 3 | |
| $d \geq 4$ | | $t \geq 4$ | |

Adding and Subtracting Polynomials:

Multiplying Binomials by Binomials:

Chapter Nine Study Sheet (cont.)

Multiplying ANY Polynomial by ANY Polynomial:

definition of factoring:

Factoring Polynomials via GCF:

Factoring a Quadratic Trinomial:

Difference of Two Squares:

Factoring by Grouping:

Summary of Factoring:

1. Put the _____ in _____.
2. _____ out the _____ of all _____.
3. If _____, check for _____.
- If _____, use _____.
- If _____, _____.
4. Lastly, check to be sure there are no common
_____ other than _____ and _____
to ensure that you arrive back at the original polynomial.

